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| DESCRIPTION: | 12 Monthly Zone 3 Lubrication and Service | FREQUENCY: | 12 Months |
| LOCATION: | Carole Park Sewerage Treatment Plant | STANDARD JOB No.: | LTS321 |

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| Tools & Equipment |
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| Spare Parts/Materials List |
| Shell Gadus S2 general purpose high pressure |
| Castrol Alpha SP220 |
| Castrol Alpha SP320 |
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| Reference |
| Follow correct shut down procedures before working on any equipment. |
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| Maintenance Group |
| Secondary Settling Tank 4 |
| Secondary Settling Tank 5 |
| Flow Splitter 3 |
| Aeration Blowers |
| Flow Splitter 2 |
| Anoxic & Aerobic Tank No.1 |
| Anoxic & Aerobic Tank No.2 |
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| Procedural Steps |
| Before isolating any equipment, where possible observe in running condition. Check for correct operation. |
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| Secondary Settling Tank 4 |
| Check Drive gearbox unit for leaks / noise / vibration |
| Check Drive Wheel and idle wheel for bearing noise / de-lamination |
| Check Centre Column Bearing for noise / vibration |
| Check Grease lines and grease nipples for defects. |
| Grease centre column bearing. |
| Grease each Updraught Tube Spindle top and bottom |
| Grease bearings on Drive Wheel and Trail Wheel |
| Isolate bridge and perform lube maintenance: |
| Replace oil in bridge drive gearboxes with Alpha SP320. D81 Unit takes 3.35 litres & Z40 Unit takes 1.1 litres |
| Jack up bridge and check wheel bearings (and wheel) for play on shaft. |
| Inspect Gearmotor Variator belt for cracking and wear. |
| Inspect coupling drive for defects. |

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|--|---|
| | Secondary Settling Tank 5 |
| | Check Drive gearbox unit for leaks / noise / vibration |
| | Check Drive Wheel and idle wheel for bearing noise / de-lamination |
| | Check Centre Column Bearing for noise / vibration |
| | Check Grease lines and grease nipples for defects. |
| | Grease centre column bearing. |
| | Grease each Updraught Tube Spindle top and bottom |
| | Grease bearings on Drive Wheel and Trail Wheel |
| | Isolate bridge and perform lube maintenance: |
| | Replace oil in bridge drive gearboxes with Alpha SP320. D81 Unit takes 3.35 litres & Z40 Unit takes 1.1 litres |
| | Jack up bridge and check wheel bearings (and wheel) for play on shaft. |
| | Inspect Gearmotor Variator belt for cracking and wear. |
| | Inspect coupling drive for defects. |
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| | Flow Splitter 3 |
| | Check Penstocks and support frames for defects |
| | Grease penstock stem nuts. Shell Gadus S2 general purpose high pressure |
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| | Aeration Blowers |
| | Grease motor bearings. Shell Gadus S2 general purpose high pressure |
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| | Flow Splitter No.2 |
| | Check Penstocks and support frames for defects |
| | Grease penstock stem nuts. Shell Gadus S2 general purpose high pressure |
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| | Anoxic & Aerobic Tank No.1 |
| | Check Mixer Unit No.1 for noise, leaks and vibration. Carry out oil change with Alpha SP220. |
| | Check Mixer Unit No.2 for noise, leaks and vibration. Carry out oil change with Alpha SP220. |
| | Check Mixer Unit No.3 for noise, leaks and vibration. Apply grease to greasing points. Shell Gadus S2 general purpose high pressure |
| | Check Mixer Unit No.4 for noise, leaks and vibration. Carry out oil change with Alpha SP220. |
| | Check Mixer Unit No.5 for noise, leaks and vibration. Carry out oil change with Alpha SP220. |
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| Anoxic & Aerobic Tank No.2 | |
| Check Mixer Unit No.6 for noise, leaks and vibration. Carry out oil change with Alpha SP220. | |
| Check Mixer Unit No.7 for noise, leaks and vibration. Carry out oil change with Alpha SP220. | |
| Check Mixer Unit No.8 for noise, leaks and vibration. Carry out oil change with Alpha SP220. | |
| Check Mixer Unit No.9 for noise, leaks and vibration. Carry out oil change with Alpha SP220. | |
| Check Mixer Unit No.10 for noise, leaks and vibration. Apply grease to greasing points. Shell Gadus S2 general purpose high pressure | |
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| A-Recycle Pump No.1 – Hire Crane Required | |
| Check for noise and vibration. | |
| Check rail and lifting chain for defects. | |
| Remove pump and carry out oil change. | |
| Remove element from volute and check wear ring gap. | |
| Access condition of Impeller and internal housing. | |
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| A-Recycle Pump No.2 – Hire Crane Required | |
| Check for noise and vibration. | |
| Check rail and lifting chain for defects. | |
| Remove pump and carry out oil change. | |
| Remove element from volute and check wear ring gap. | |
| Access condition of Impeller and internal housing. | |
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| A-Recycle Pump No.3 – Hire Crane Required | |
| Check for noise and vibration. | |
| Check rail and lifting chain for defects. | |
| Remove pump and carry out oil change. | |
| Remove element from volute and check wear ring gap. | |
| Access condition of Impeller and internal housing. | |
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| A-Recycle Pump No.4 – Hire Crane Required | |
| Check for noise and vibration. | |
| Check rail and lifting chain for defects. | |
| Remove pump and carry out oil change. | |
| Remove element from volute and check wear ring gap. | |
| Access condition of Impeller and internal housing. | |